## PATENT COOPERATION TREATY

om the TERNATIONAL SEARC	CHING AUTHO	DRITY		D		
To:				PCTREC'D 27 MAY 2005		
see form PCT/ISA/220			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)			
			Date of mailing (day/month/year) s	see form PCT/ISA/210 (second sheet)		
Applicant's or agent's file re			FOR FURTHER See paragraph 2 be	RACTION		
International application No. PCT/IB2005/050802		International filing date (d	day/month/year)	Priority date (day/month/year) 25.03.2004		
		both national classification	and IPC			
Applicant KONINKLIJKE PHIL		ONICS N.V.				
			lowing items:			
This opinion contains indications relating to the following items:						
☐ Box No. II☐ Box No. III	Priority Non-establish	nment of oplnion with reg	ard to novelty, inve	ntive step and industrial applicability		
☐ Box No. IV	1 le of unite	of invention				
Box No. V Reasoned statement under Rule applicability; citations and expla			is.1(a)(i) with regard is supporting such s	i to novelty, inventive step or industrial statement		
☐ Box No. VI	Certain docu		-lication			
☐ Box No. VII	Certain defe	cts in the international ap	plication			
☑ Box No. VIII	Certain obse	ervations on the internation	mai application			
written opinion of the applicant ch International Bu will not be so co	international pof the International poses an Authoreau under Rubonsidered.	ority other than this one the 66.1 bis(b) that written	to be the IPEA and opinions of this Inte	will usually be considered to be a "). However, this does not apply where the chosen IPEA has notifed the ernational Searching Authority		
If this opinion is submit to the IP months from the whichever expir	'EA a wriπen re e date of mailii	above, considered to be a eply together, where apping of Form PCT/ISA/220	a written opinion of topriate, with amenor or before the expiration of the expiratio	the IPEA, the applicant is invited to diments, before the expiration of three ation of 22 months from the priority date,		
· For further option	ons, see Form	PCT/ISA/220.		·		
		to Form PCT/ISA/220.		•		
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Name and mailing add	ress of the ISA:		Authorized Office	er		
D-10958	an Patent Office 3 Berlin 30 25901 - 0 9 30 25901 - 840	- Gitschiner Str. 103	Chave, J Telephone No. 4	+49 30 25901-476		

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050802

_	Box No. 1 Basis of the opinion					
1.	Ith regard to the language, this opinion has been established on the basis of the international application in le language in which it was filed, unless otherwise indicated under this item.					
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).					
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material:					
•	a sequence listing					
	☐ table(s) related to the sequence listing					
	b. format of material:					
	in written format					
	in computer readable form					
	c. time of filing/furnishing:					
	contained in the international application as filed.					
	filed together with the international application in computer readable form.					
	furnished subsequently to this Authority for the purposes of search.					
3	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
	Additional comments:					

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050802

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-39

Claims No:

Inventive step (IS)

Yes: Claims

No:

Claims

Industrial applicability (IA)

Yes: Claims

1-39

1-39

Claims ·No:

2. Citations and explanations

see separate sheet

Certain observations on the international application Box No. VIII

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

### Re Item V.

1 Reference is made to the following documents:

D1: US 2002/110099 A1 (ZEIRA ARIELA ET AL) 15 August 2002 (2002-08-15)

D2: MAYER J ET AL: "Handoff protocols in JD-CDMA" PERSONAL, INDOOR AND MOBILE RADIO COMMUNICATIONS, 1998. THE NINTH IEEE INTERNATIONAL SYMPOSIUM ON BOSTON, MA, USA 8-11 SEPT. 1998, NEW YORK, NY, USA,IEEE, US, vol. 1, 8 September 1998 (1998-09-08), pages 355-359, XP010314789 ISBN: 0-7803-4872-9

- 2. Objections to Article 33 PCT:
- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 does not involve any inventive step in the sense of Article 33(3) PCT.

Document D1 discloses (the references in parentheses applying to this document): A method for implementing downlink Joint Detection in TDD CDMA communication systems to be performed in the UE, comprising the steps of:

- a) receiving downlink signal from a network system in a specific timeslot; (paragraphs 17 and 18);
- b) obtaining an active primary and secondary channelisation codes in the specific timeslot, through processing the downlink signal (using the mapping between midambles and channelisation codes, and using a dedicated channel providing the necessary information for the remaining uncertainty, see paragraphs 18 and 21) c) acquiring the initial ACC (Active Channelisation Codes) information for use in implementing Joint Detection in next radio frame, through a midamble detection (block 48 on figure 3) and the decoding of channelization code information (paragraph 21) implementing a JD algorithm on the downlink signal by using the primary and secondary channelisation codes:
- 2.2 In D1, it is only mentioned that the ACC is acquired via the midamble mapping associated to the decoding of channelization code information which is disclosed as being a layer one signal. It would be obvious to a skilled person that due to the

presence of strong adjacent channels like the BCH, a Joint Detection has to be implemented in order to decode this layer one signal carrying the missing channelisation code information.

- 2.3 Therefore the subject-matter of claim 1 does not involve any inventive step (Article 33(3) PCT).
- 2.4 Since D1 discloses the use of a layer one signal to transmit the channelisation codes information, the subject-matter of claim 15 also does not involve any inventive step (Article 33(3) PCT).
- 2.5 The same objection applies to corresponding apparatus claims 22 and 34. The subject-matter of these claims therefore does not involve any inventive step (Article 33(3) PCT).
- 2.6 Concerning the additional steps or features of dependent claims 2 to 14, 16 to 21, 23 to 33 and 35 to 39, it would be obvious to a skilled person when trying to implement the idea disclosed in paragraph 21, to look for reserved bits within existing channels in the standard, and therefore the skilled person would come across the FPACH as a channel suitable for bearing the supplementary channelization code information, and consider the well-known decoding methods as mentioned in these claims. Therefore the subject of the dependent claims does not involve any inventive step (Article 33(3) PCT).

### Re Item VIII.

- 3. There are further objections concerning the requirements of Article 6 PCT:
- 3.1 The expressions "primary and secondary channelisation codes" first introduced in claims 1, 19, 20, 22 and 37 are not clear, since they are related to the specific default midamble case, which is not defined in these claims.
- 3.2 The difference between steps b) and c) in claim 1 remains unclear, since both of

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2005/050802

them (see claims 3 and 5) decodes the ACC dedicated channel.

## PATENT COOPERATION TREATY

om the FERNATIONAL SEARC	HING AUTHORITY					
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see form PCT/ISA/220			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)			
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nternational application NPCT/IB2005/050802		I filing date <i>(day/month.</i> )5	iyear)	Priority date (day/month/yell 25.03.2004	ar)	
nternational Patent Class	fication (IPC) or both national of	classification and IPC	<u></u>			
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pplicant ONINKLIJKE PHIL	IPS ELECTRONICS N.V	•				
Box No. II Box No. III Box No. IV Box No. IV Box No. V  Box No. V  Box No. VI Box No. VIII Box No. VIII FURTHER ACT  If a demand for written opinion of the applicant challenge in the solution of the solutio	Certain observations on the ION international preliminary exposses an Authority other the Index Rule 66.1 bis(b) onsidered.	er Rule 43bis.1(a)(i) explanations supporternational application he international application any Examining Authoran this one to be the that written opinions dered to be a written	with regard to orting such state lication will be IPEA and the sof this Internation opinion of the	novelty, inventive step of tement  Il usually be considered to However, this does not a chosen IPEA has notife ational Searching Author IPEA, the applicant is intents. In the expiration	o be a apply where of the rity	
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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050802

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1-39

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Claims

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see separate sheet

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